

- C1
Cont.
- (a) one or more monomers selected from the group consisting of acrylates, methacrylates, styrene, substituted styrene, fluoromethacrylates, vinyl acrylates, vinyl acetates, acrylamides, substituted acrylamides, methacrylamides, and substituted methacrylamides, and
- (b) an acid component selected from the group consisting of acrylic acid, methacrylic acid, itaconic acid, maleic acids, vinylsulfonic acid, and acid derived from methacrylic anhydride, maleic anhydride, sodium vinylsulfonate, acrylamidopropane sulfonate, and combinations thereof, wherein the acid component is present in a range from 1 to 10 wt.% of the polymer; wherein the polymer has a glass transition temperature in the range from -20°C to 25°C, and an average particle diameter in the range from 250 to 400 nm, and a particle size distribution such that essentially all the particles have a diameter in the range from 130 to 450 nm.
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- C2
8. (Twice Amended) An ink binder comprising a polymer consisting essentially of:
- (a) one or more monomers selected from the group consisting of acrylates, methacrylates, styrene, substituted styrene, fluoromethacrylates, vinyl acrylates, vinyl acetates, acrylamides, substituted acrylamides, methacrylamides, and substituted methacrylamides, and
- (b) an acid component selected from the group consisting of acrylic acid, methacrylic acid, itaconic acid, maleic acids, vinylsulfonic acid, and acid derived from methacrylic anhydride, maleic anhydride, sodium vinylsulfonate, acrylamidopropane sulfonate, and combinations thereof, wherein the acid component is present in a range from 1 to 3 wt.% of the polymer; wherein the polymer has a glass transition temperature in the range from -20°C to 25°C, a particle size distribution such that essentially all the particles have a diameter in the range from 130 to 450 nm and an average particle diameter in the range from 250 to 400 nm.
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REMARKS

Applicant has amended the claims in accordance with the Examiner's request. No new matter has been added.